Department of Liberal Education
Era University, Lucknow
Course Outline
Effective From: 2023-24

Name of the Program	B.A. / B.Sc. (LIBERAL EDUCATION)			Year/ Semester:	3rd / 6th
Course Name	Web Technologies	Course Code:	CS305	Type:	Theory
Credits	03			Total Sessions Hours:	45 Hours
Evaluation Spread	Internal Continuous Assessment:	40 Marks		End Term Exam:	35 Marks
Type of Course	○ Compulsory	⦿ Core		○ Creative	○ Life Skill
Course Objectives	1. To learn basic knowledge of project planning and development. 2. To learn the role of Quality Assurance and technological advances. 3. To learn fundamental language of internet i.e. HTML, DHTML and CSS. 4. To learn basics of client side Java Script and Server Side programming constructs.				

Course Outcomes (CO): *After the successful course completion, learners will develop following attributes:*

Course Outcome (CO)	Attributes
CO1	Analyze a web page and identify its elements and attributes.
CO2	Create web pages using XHTML and Cascading Style Sheets.
CO3	Build dynamic web pages using JavaScript (Client-side programming).
CO4	Create XML documents and Schemas.
Pedagogy	Interactive, discussion-bases, student-centered, presentation.
Internal Evaluation Mode	Mid-term Examination: 20 Marks Class test: 05 Marks Online Test/Objective Test: 05 Marks Assignments/Presentation: 05 Marks Attendance: 05 Marks

Session Details	Topic	Hours	Mapped CO
Unit 1	**Internet Basic -** Introduction to HTML - List - Creating Table - Linking document Frames - Graphics to HTML Doc - Style sheet - Style sheet basic - Add style to document - Creating Style sheet rules - Style sheet properties - Font - Text - List - Color and background color - Box - Display properties.	12	CO1
Unit 2	**Introduction to JavaScript -** Advantage of JavaScript, JavaScript Syntax, Data-type - Variable - Array - Operator and Expression - Looping Constructor - Function - Dialog box.	10	CO2
Unit 3	**JavaScript document object model -** Introduction - Object in HTML - Event Handling - Window Object - Document object - Browser Object - Form Object - Navigator object Screen object - Build in Object - User-defined object - Cookies.	10	CO3
Unit 4	**XML:** Introduction, The Need for XML, Structured Data and Formatting, Advantages of XML, SGML, XML, and HTML, World Wide Web Consortium (W3C) Specifications and Grammars. **XML Applications and Tools:** Creating and Viewing	13	CO4

	XML Documents, Transforming XML Documents, XML Document Syntax, Validating XML Documents with DTDs, XML Namespaces.		

CO-PO and PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	1	2	1	2	1	1	1	2	2	1	2	3	2	1
CO2	2	1	2			3	2	3	1	3	1	1	2	3
CO3	2	1	2		1	2	1	1	2	2	2	2	2	2
CO4	1	2	2	1	1	1	2	1	1	2	1	1	1	2

Strong contribution-3,   Average contribution-2 ,   Low contribution-1,

Suggested Readings:

Text- Books	1. Web Enable Commercial Application Development Using HTML, DHTML, JavaScript, Perl CGI, I. Bayross, BPB Publications, 2000. 2. Mastering JavaScript, J. Jaworski, BPB Publications, 1999.
Reference Books	1. Complete Reference HTML T. A. Powell, Third Edition, TMH, 2002. 2. ASP.NET Developers Guide, G. Buczek, TMH, 2002 3. Ivan Bayross, "Web Technologies Part II", BPB Publications.
Para Text	**Unit 1:** https://onlinecourses.swayam2.ac.in/nou23_cs09/preview **Unit 2:** https://www.tutorialspoint.com/the_ultimate_canva_graphic_design_course/index.asp **Unit 3:** https://www.w3schools.com/js/js_htmldom.asp **Unit4:** https://www.javatpoint.com/what-is-xml

Recapitulation & Examination Pattern

Internal Continuous Assessment:

Component	Marks	Pattern
Mid Semester	20	**Section A:** Contains **10** MCQs/Fill in the blanks/One Word Answer/ True-False type of questions. Each question carries **0.5 Marks.** **Section B:** Contains **07** descriptive questions out of which **05** questions are to be attempted. Each question carries **03 Marks**.
Class Test	05	Contains **05 descriptive questions.** Each question carries **01** Mark.
Online Test/ Objective Test	05	Contains **10 multiple choice questions.** Each question carries **0.5** Marks.
Assignment/ Presentation	05	Assignment to be made on topics and instruction given by subject teacher
Attendance	05	As per policy
Total Marks	**40**	

Course created by: Dr. Mohd Haleem **Signature:**	**Approved by: Prof. Mansaf Alam** **Signature:**